THE INVENTION CLAIMED IS:

 A high strength steel for induction hardening, comprising, by mass:

carbon (C): 0.5 to 0.7%, silicon (Si): 0.5 to 0.9%,

manganese (Mn): 0.5 to 1.0%,

chromium (Cr): not more than 0.4%, and

sulfur (S): not more than 0.035%,

with the balance consisting of iron (Fe) and unavoidable impurities, said steel being forged into a component at least a part of which is then inductively hardened before use.

2. The high strength steel for induction hardening according to claim 1, wherein the equivalent of carbon C_{eq} represented by formula (1) satisfies a requirement represented by formula (2):

$$C_{eq} = C\% + 1/7 \text{ Si}\% + 1/5 \text{ Mn}\% + 1/9 \text{ Cr}\% - 5/7 \text{ S}\%$$
 (1)

$$0.75 \le C_{eq} \le 0.90$$
 (2)

- 3. A component produced by inductively hardening at least a part of a product produced by casting the steel according to claim 1.
- 4. The component according to claim 3, wherein the component is a hub unit or a joint.
- 5. The high strength steel of claim 1 having a Si content of 0.59 to 0.9%.
- 6. A high strength steel for induction hardening, having improved machinability, said steel comprising, by mass:

carbon (C): 0.5 to 0.7%,

silicon (Si): 0.5 to 1.0%,

manganese (Mn): 0.5 to 1.0%,

chromium (Cr): not more than 0.4%,

sulfur (S): not more than 0.035%, and

vanadium (V): 0.01 to 0.15%

with the balance consisting of iron (Fe) and unavoidable impurities, said steel being cast and forged to produce a component at least a part of which is then inductively hardened before use.

7. The high strength steel for induction hardening according to claim 6, having a Si content of 0.59 to 0.9% and wherein the equivalent of carbon C_{eq} represented by formula (1) satisfies a requirement represented by formula (2):

$$C_{eq} = C\% + 1/7 \text{ Si\%} + 1/5 \text{ Mn\%} + 1/9 \text{ Cr\%} - 5/7 \text{ S\%} + \text{V\%}$$
 (1)
 $0.75 \le C_{eq} \le 0.90$ (2)

- 8. A component produced by inductively hardening at least a part of a product produced by casting the steel according to claim 6.
- 9. The component according to claim 8, wherein the component is a hub unit or a joint.
- 10. An induction hardened hub made from a high strength steel comprising, by mass:

carbon (C): 0.5 to 0.7%,

silicon (Si): 0.5 to 0.9%,

manganese (Mn): 0.5 to 1.0%,

chromium (Cr): not more than 0.4%, and

sulfur (S): not more than 0.035%,

with the balance consisting of iron (Fe) and unavoidable impurities, said steel being forged into a component at least a part of which is then inductively hardened before use.

11. The induction hardened hub of claim 10 wherein the high strength steel contains 0.59 to 0.9% Si.